

# **Occupational Employment and Wage Estimates**

## **Pascagoula MSA May 2005 Panel**

### **MDES Increasing Employment in Mississippi**

Created by the LMI Department in cooperation  
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**Employment and Wage Estimates  
May 2005 Panel  
Index**

**Pascagoula MSA**

<b>Occupational Groups</b>	<b>Page</b>
----------------------------	-------------

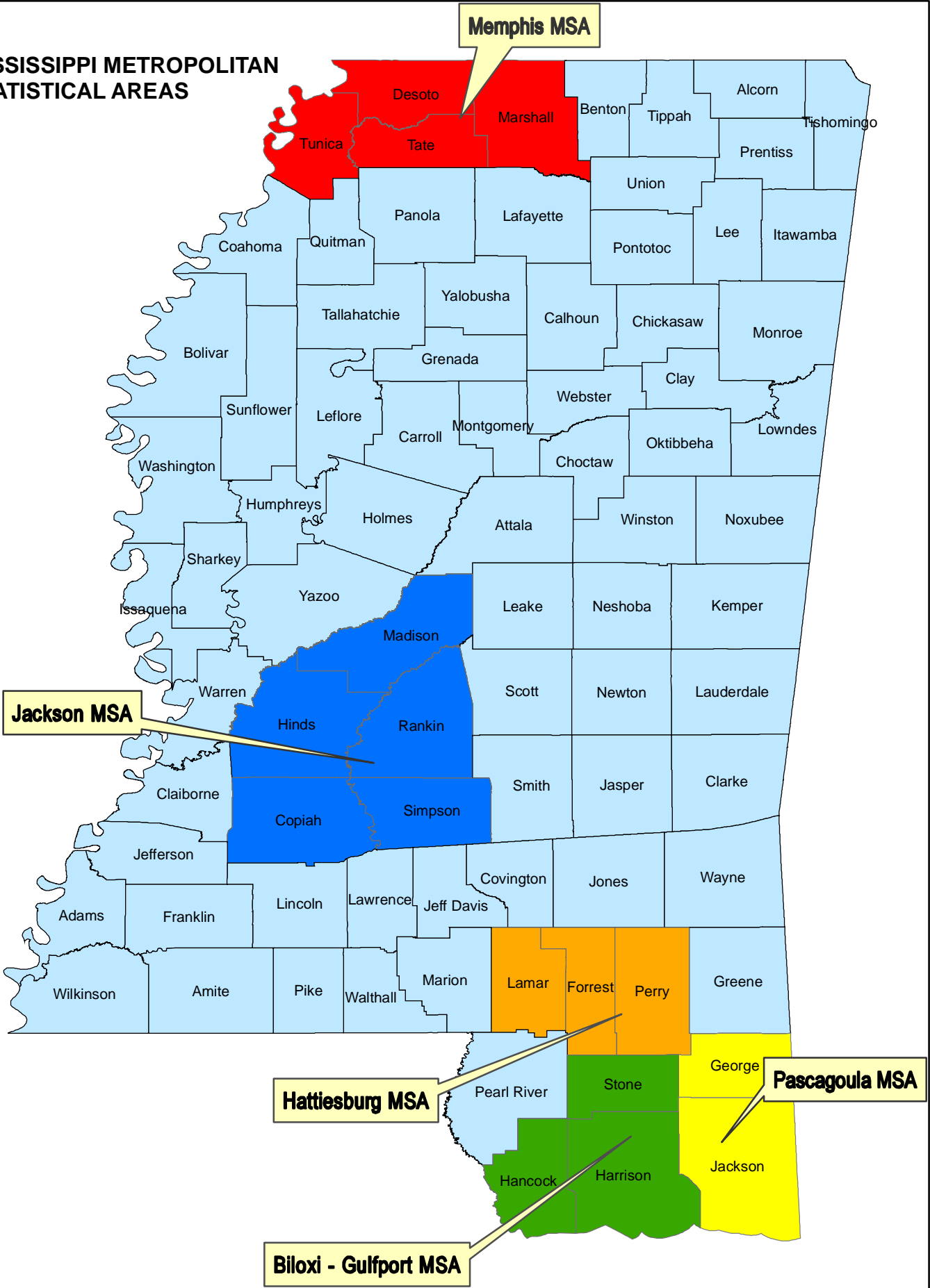
Management Occupations	1
Business and Financial Operations Occupations	1
Computer and Mathematical Occupations	2
Architecture and Engineering Occupations	2
Life, Physical, and Social Science Occupations	3
Community and Social Services Occupations	3
Legal Occupations	3
Education, Training, and Library Occupations	3
Arts, Design, Entertainment, Sports, and Media Occupations	4
Healthcare Practitioners and Technical Occupations	4
Healthcare Support Occupations	5
Protective Service Occupations	6
Food Preparation and Serving-Related Occupations	6
Building and Grounds Cleaning and Maintenance Occupations	7
Personal Care and Service Occupations	7
Sales and Related Occupations	7
Office and Administrative Support Occupations	8
Farming, Fishing, and Forestry Occupations	9
Construction and Extraction Occupations	9
Installation, Maintenance, and Repair Occupations	10
Production Occupations	11
Transportation and Material Moving Occupations	11

**Technical Notes for May 2005 Panel**

NOTE: The Pascagoula Metropolitan Statistical Area represents the following counties:

Jackson County  
George County

**MISSISSIPPI METROPOLITAN  
STATISTICAL AREAS**



**MDES**  
**Increasing Employment in Mississippi**

**Occupational Employment and Wages**  
**Pascagoula MSA**  
**May 2005 Panel**

SOC Code	SOC Title	Employment (1)	Average Hourly	Average Annual	Entry Hourly	Entry Annual	Experienced Hourly	Experienced Annual
<b>00-0000</b>	<b>Total all occupations</b>	<b>53,080</b>	<b>\$16.09</b>	<b>\$33,460</b>	<b>\$7.73</b>	<b>\$16,070</b>	<b>\$20.37</b>	<b>\$42,360</b>
<b>11-0000</b>	<b>Management Occupations</b>	<b>2,560</b>	<b>\$30.89</b>	<b>\$64,250</b>	<b>\$15.00</b>	<b>\$31,200</b>	<b>\$38.83</b>	<b>\$80,770</b>
11-1011	Chief Executives	210	\$49.50	\$102,970	\$26.61	\$55,350	\$60.95	\$126,780
11-1021	General and Operations Managers	500	\$29.31	\$60,970	\$16.04	\$33,370	\$35.95	\$74,770
11-2011	Advertising and Promotions Managers	20	\$18.26	\$37,980	\$12.11	\$25,200	\$21.33	\$44,370
11-2031	Public Relations Managers	20	\$22.39	\$46,570	\$17.44	\$36,280	\$24.86	\$51,710
11-3011	Administrative Services Managers	110	\$29.35	\$61,050	\$11.28	\$23,460	\$38.39	\$79,850
11-3021	Computer and Information Systems Managers	40	\$30.09	\$62,590	\$19.23	\$40,010	\$35.52	\$73,880
11-3031	Financial Managers	120	\$27.03	\$56,230	\$13.97	\$29,060	\$33.57	\$69,820
11-3041	Compensation and Benefits Managers	30	\$22.05	\$45,860	\$11.41	\$23,720	\$27.37	\$56,930
11-3042	Training and Development Managers	20	\$28.68	\$59,650	\$20.04	\$41,670	\$33.00	\$68,640
11-3071	Transportation, Storage, and Distribution Managers	N/A	\$28.19	\$58,630	\$19.01	\$39,530	\$32.78	\$68,170
11-9021	Construction Managers	N/A	\$23.53	\$48,940	\$19.75	\$41,070	\$25.42	\$52,880
11-9032	Education Administrators, Elementary and Secondary School	120	N/A	\$66,020	N/A	\$55,560	N/A	\$71,240
11-9051	Food Service Managers	230	\$14.00	\$29,130	\$9.74	\$20,260	\$16.14	\$33,560
11-9081	Lodging Managers	N/A	\$13.88	\$28,870	\$11.80	\$24,530	\$14.92	\$31,040
11-9111	Medical and Health Services Managers	110	\$34.78	\$72,340	\$21.38	\$44,480	\$41.48	\$86,270
11-9141	Property, Real Estate, and Community Association Managers	40	N/A	N/A	N/A	N/A	N/A	N/A
11-9151	Social and Community Service Managers	N/A	\$15.92	\$33,120	\$11.47	\$23,850	\$18.15	\$37,750
11-9199	Managers, All Other	60	\$40.49	\$84,230	\$22.00	\$45,760	\$49.74	\$103,460
<b>13-0000</b>	<b>Business and Financial Operations Occupations</b>	<b>1,450</b>	<b>\$22.79</b>	<b>\$47,400</b>	<b>\$13.76</b>	<b>\$28,620</b>	<b>\$27.30</b>	<b>\$56,790</b>

**MDES**  
**Increasing Employment in Mississippi**

**Occupational Employment and Wages**  
**Pascagoula MSA**  
**May 2005 Panel**

<b>SOC Code</b>	<b>SOC Title</b>	<b>Employment (1)</b>	<b>Average Hourly</b>	<b>Average Annual</b>	<b>Entry Hourly</b>	<b>Entry Annual</b>	<b>Experienced Hourly</b>	<b>Experienced Annual</b>
13-1023	Purchasing Agents, Except Wholesale, Retail, and Farm Products	190	\$22.31	\$46,410	\$14.08	\$29,290	\$26.43	\$54,960
13-1041	Compliance Officers, Except Agriculture, Construction, Health and Safety, and	50	\$21.06	\$43,800	\$16.06	\$33,410	\$23.56	\$49,000
13-1071	Employment, Recruitment, and Placement Specialists	60	\$16.78	\$34,900	\$11.84	\$24,620	\$19.25	\$40,040
13-1073	Training and Development Specialists	90	\$23.40	\$48,680	\$15.82	\$32,910	\$27.19	\$56,560
13-1079	Human Resources, Training, and Labor Relations Specialists, All Other	10	\$27.98	\$58,200	\$16.28	\$33,860	\$33.84	\$70,380
13-2011	Accountants and Auditors	190	\$22.53	\$46,860	\$15.63	\$32,500	\$25.98	\$54,040
13-2072	Loan Officers	40	\$21.69	\$45,120	\$13.88	\$28,870	\$25.60	\$53,250
13-2082	Tax Preparers	90	\$13.37	\$27,800	\$7.66	\$15,930	\$16.22	\$33,740
<b>15-0000</b>	<b>Computer and Mathematical Occupations</b>	<b>460</b>	<b>\$27.87</b>	<b>\$57,980</b>	<b>\$17.24</b>	<b>\$35,870</b>	<b>\$33.19</b>	<b>\$69,030</b>
15-1021	Computer Programmers	30	\$16.83	\$35,020	\$12.64	\$26,280	\$18.93	\$39,380
15-1031	Computer Software Engineers, Applications	N/A	\$31.35	\$65,210	\$21.87	\$45,480	\$36.10	\$75,080
15-1041	Computer Support Specialists	30	\$16.77	\$34,880	\$10.91	\$22,690	\$19.70	\$40,970
15-1051	Computer Systems Analysts	50	\$26.36	\$54,820	\$16.17	\$33,630	\$31.45	\$65,420
15-1061	Database Administrators	N/A	\$28.99	\$60,300	\$21.83	\$45,410	\$32.57	\$67,740
15-1071	Network and Computer Systems Administrators	50	\$27.22	\$56,630	\$20.77	\$43,190	\$30.45	\$63,340
15-1081	Network Systems and Data Communications Analysts	N/A	\$26.96	\$56,080	\$17.02	\$35,390	\$31.94	\$66,430
17-2041	Chemical Engineers	40	\$29.13	\$60,590	\$25.83	\$53,720	\$30.78	\$64,030
17-2051	Civil Engineers	190	\$29.34	\$61,030	\$21.44	\$44,600	\$33.29	\$69,250
17-2071	Electrical Engineers	140	\$30.27	\$62,960	\$22.53	\$46,860	\$34.14	\$71,000
17-2111	Health and Safety Engineers, Except Mining Safety Engineers and Inspectors	30	\$24.33	\$50,620	\$17.51	\$36,410	\$27.75	\$57,720
17-2141	Mechanical Engineers	60	\$28.03	\$58,310	\$20.32	\$42,270	\$31.89	\$66,330

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**Increasing Employment in Mississippi**

**Occupational Employment and Wages**  
**Pascagoula MSA**  
**May 2005 Panel**

SOC Code	SOC Title	Employment (1)	Average Hourly	Average Annual	Entry Hourly	Entry Annual	Experienced Hourly	Experienced Annual
17-3011	Architectural and Civil Drafters	N/A	\$32.18	\$66,930	\$19.16	\$39,850	\$38.69	\$80,470
17-3012	Electrical and Electronics Drafters	50	\$23.88	\$49,680	\$15.48	\$32,210	\$28.08	\$58,410
17-3013	Mechanical Drafters	70	\$17.33	\$36,050	\$15.66	\$32,580	\$18.17	\$37,790
17-3023	Electrical and Electronic Engineering Technicians	90	\$22.37	\$46,540	\$16.22	\$33,730	\$25.45	\$52,940
<b>19-0000</b>	<b>Life, Physical, and Social Science Occupations</b>	<b>260</b>	<b>\$26.73</b>	<b>\$55,600</b>	<b>\$16.97</b>	<b>\$35,290</b>	<b>\$31.62</b>	<b>\$65,760</b>
19-1031	Conservation Scientists	40	\$34.00	\$70,720	\$25.73	\$53,520	\$38.13	\$79,310
19-2031	Chemists	10	\$31.18	\$64,860	\$19.93	\$41,460	\$36.81	\$76,560
19-3031	Clinical, Counseling, and School Psychologists	20	\$21.90	\$45,560	\$17.74	\$36,890	\$23.99	\$49,900
19-4031	Chemical Technicians	N/A	\$20.47	\$42,580	\$20.19	\$41,990	\$20.62	\$42,880
19-4091	Environmental Science and Protection Technicians, Including Health	N/A	\$19.57	\$40,710	\$11.97	\$24,910	\$23.37	\$48,610
<b>21-0000</b>	<b>Community and Social Services Occupations</b>	<b>300</b>	<b>\$16.07</b>	<b>\$33,420</b>	<b>\$10.66</b>	<b>\$22,180</b>	<b>\$18.77</b>	<b>\$39,040</b>
21-1012	Educational, Vocational, and School Counselors	60	\$19.80	\$41,180	\$13.73	\$28,550	\$22.84	\$47,500
21-1021	Child, Family, and School Social Workers	90	\$13.31	\$27,680	\$9.35	\$19,440	\$15.29	\$31,800
21-1093	Social and Human Service Assistants	20	\$11.18	\$23,260	\$7.87	\$16,360	\$12.84	\$26,710
<b>23-0000</b>	<b>Legal Occupations</b>	<b>240</b>	<b>\$28.69</b>	<b>\$59,680</b>	<b>\$10.52</b>	<b>\$21,870</b>	<b>\$37.78</b>	<b>\$78,590</b>
23-1011	Lawyers	130	\$40.66	\$84,570	\$19.43	\$40,410	\$51.27	\$106,640
23-2011	Paralegals and Legal Assistants	N/A	\$14.26	\$29,660	\$11.47	\$23,860	\$15.65	\$32,560
<b>25-0000</b>	<b>Education, Training, and Library Occupations</b>	<b>3,260</b>	<b>\$14.51</b>	<b>\$30,170</b>	<b>\$7.77</b>	<b>\$16,150</b>	<b>\$17.88</b>	<b>\$37,180</b>
25-2012	Kindergarten Teachers, Except Special Education	100	N/A	\$36,740	N/A	\$30,690	N/A	\$39,760
25-2021	Elementary School Teachers, Except Special Education	670	N/A	\$36,060	N/A	\$29,470	N/A	\$39,360
25-2022	Middle School Teachers, Except Special and Vocational Education	330	N/A	\$37,020	N/A	\$30,750	N/A	\$40,150

**MDES**  
**Increasing Employment in Mississippi**

**Occupational Employment and Wages**  
**Pascagoula MSA**  
**May 2005 Panel**

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25-2023	Vocational Education Teachers, Middle School	30	N/A	\$39,300	N/A	\$32,670	N/A	\$42,620
25-2031	Secondary School Teachers, Except Special and Vocational Education	440	N/A	\$36,770	N/A	\$30,320	N/A	\$39,990
25-2041	Special Education Teachers, Preschool, Kindergarten, and Elementary School	120	N/A	\$35,670	N/A	\$31,980	N/A	\$37,510
25-2042	Special Education Teachers, Middle School	60	N/A	\$37,440	N/A	\$30,970	N/A	\$40,680
25-2043	Special Education Teachers, Secondary School	60	N/A	\$40,620	N/A	\$30,790	N/A	\$45,540
25-4021	Librarians	70	\$18.33	\$38,120	\$14.94	\$31,070	\$20.02	\$41,650
25-4031	Library Technicians	20	\$9.18	\$19,100	\$6.52	\$13,570	\$10.51	\$21,860
25-9041	Teacher Assistants	790	N/A	\$16,870	N/A	\$12,700	N/A	\$18,960
<b>27-0000</b>	<b>Arts, Design, Entertainment, Sports, and Media Occupations</b>	<b>280</b>	<b>\$18.17</b>	<b>\$37,790</b>	<b>\$10.84</b>	<b>\$22,540</b>	<b>\$21.83</b>	<b>\$45,410</b>
27-1024	Graphic Designers	10	\$17.00	\$35,370	\$11.77	\$24,480	\$19.62	\$40,810
27-1026	Merchandise Displayers and Window Trimmers	10	\$7.06	\$14,680	\$6.14	\$12,770	\$7.52	\$15,640
27-3031	Public Relations Specialists	40	\$16.42	\$34,150	\$11.16	\$23,200	\$19.05	\$39,620
27-3041	Editors	10	\$23.03	\$47,890	\$17.35	\$36,090	\$25.86	\$53,790
<b>29-0000</b>	<b>Healthcare Practitioners and Technical Occupations</b>	<b>3,100</b>	<b>\$22.27</b>	<b>\$46,310</b>	<b>\$11.46</b>	<b>\$23,840</b>	<b>\$27.67</b>	<b>\$57,550</b>
29-1021	Dentists, General	N/A	\$72.36	\$150,500	\$50.73	\$105,530	\$83.17	\$172,990
29-1031	Dietitians and Nutritionists	20	\$16.54	\$34,410	\$10.30	\$21,430	\$19.66	\$40,900
29-1051	Pharmacists	70	\$42.93	\$89,290	\$15.88	\$33,040	\$56.45	\$117,420
29-1062	Family and General Practitioners	N/A	\$79.73	\$165,830	\$57.29	\$119,160	\$90.95	\$189,170
29-1111	Registered Nurses	1,400	\$20.98	\$43,630	\$13.33	\$27,720	\$24.80	\$51,590
29-1122	Occupational Therapists	60	\$24.44	\$50,830	\$15.23	\$31,680	\$29.04	\$60,400
29-1123	Physical Therapists	100	\$26.49	\$55,090	\$15.56	\$32,370	\$31.95	\$66,450

NOTE: Amounts produced in cooperation with the US Bureau of Labor Statistics

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**Increasing Employment in Mississippi**

**Occupational Employment and Wages**  
**Pascagoula MSA**  
**May 2005 Panel**

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29-1125	Recreational Therapists	30	\$13.45	\$27,970	\$12.39	\$25,770	\$13.98	\$29,070
29-1126	Respiratory Therapists	70	\$19.00	\$39,510	\$15.47	\$32,180	\$20.76	\$43,180
29-1127	Speech-Language Pathologists	50	\$19.89	\$41,370	\$16.50	\$34,330	\$21.59	\$44,900
29-1131	Veterinarians	N/A	\$33.04	\$68,730	\$30.57	\$63,590	\$34.28	\$71,300
29-2011	Medical and Clinical Laboratory Technologists	60	\$20.77	\$43,190	\$15.52	\$32,280	\$23.39	\$48,650
29-2012	Medical and Clinical Laboratory Technicians	N/A	\$13.47	\$28,020	\$9.18	\$19,100	\$15.62	\$32,480
29-2021	Dental Hygienists	80	\$15.36	\$31,950	\$12.27	\$25,510	\$16.91	\$35,180
29-2034	Radiologic Technologists and Technicians	100	\$18.35	\$38,170	\$12.89	\$26,800	\$21.09	\$43,860
29-2041	Emergency Medical Technicians and Paramedics	N/A	\$10.91	\$22,690	\$7.49	\$15,580	\$12.62	\$26,240
29-2052	Pharmacy Technicians	90	\$10.08	\$20,960	\$7.63	\$15,880	\$11.30	\$23,510
29-2061	Licensed Practical and Licensed Vocational Nurses	320	\$14.14	\$29,410	\$10.85	\$22,570	\$15.79	\$32,830
29-2071	Medical Records and Health Information Technicians	50	\$10.91	\$22,700	\$8.42	\$17,520	\$12.16	\$25,300
29-9011	Occupational Health and Safety Specialists	10	\$28.60	\$59,490	\$21.51	\$44,730	\$32.15	\$66,880
<b>31-0000</b>	<b>Healthcare Support Occupations</b>	<b>1,030</b>	<b>\$9.52</b>	<b>\$19,800</b>	<b>\$6.90</b>	<b>\$14,360</b>	<b>\$10.83</b>	<b>\$22,520</b>
31-1011	Home Health Aides	N/A	\$9.43	\$19,620	\$7.61	\$15,830	\$10.35	\$21,520
31-1012	Nursing Aides, Orderlies, and Attendants	510	\$8.93	\$18,560	\$6.49	\$13,500	\$10.14	\$21,100
31-2021	Physical Therapist Assistants	30	\$15.33	\$31,890	\$10.20	\$21,210	\$17.90	\$37,230
31-2022	Physical Therapist Aides	N/A	\$8.29	\$17,240	\$7.43	\$15,450	\$8.72	\$18,140
31-9091	Dental Assistants	70	\$11.26	\$23,430	\$9.65	\$20,070	\$12.07	\$25,110
31-9092	Medical Assistants	N/A	\$10.76	\$22,390	\$9.34	\$19,420	\$11.48	\$23,870
31-9094	Medical Transcriptionists	40	\$12.50	\$26,010	\$9.86	\$20,500	\$13.83	\$28,760



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<b>33-0000</b>	<b>Protective Service Occupations</b>	<b>880</b>	<b>\$13.81</b>	<b>\$28,720</b>	<b>\$9.20</b>	<b>\$19,140</b>	<b>\$16.11</b>	<b>\$33,510</b>
33-1021	First-Line Supervisors/Managers of Fire Fighting and Prevention	20	\$19.90	\$41,390	\$14.91	\$31,010	\$22.40	\$46,580
33-1099	First-Line Supervisors/Managers, Protective Service Workers,	10	\$27.62	\$57,440	\$15.92	\$33,110	\$33.46	\$69,610
33-2011	Fire Fighters	100	\$15.29	\$31,800	\$11.27	\$23,440	\$17.30	\$35,980
33-3012	Correctional Officers and Jailers	140	\$9.09	\$18,900	\$7.72	\$16,070	\$9.77	\$20,320
33-3021	Detectives and Criminal Investigators	30	\$18.35	\$38,160	\$12.29	\$25,550	\$21.38	\$44,460
33-3051	Police and Sheriff's Patrol Officers	290	\$13.33	\$27,720	\$10.37	\$21,570	\$14.80	\$30,790
33-9032	Security Guards	180	\$13.70	\$28,510	\$9.86	\$20,520	\$15.63	\$32,500
33-9099	Protective Service Workers, All Other	20	\$19.94	\$41,480	\$14.40	\$29,950	\$22.71	\$47,240
<b>35-0000</b>	<b>Food Preparation and Serving-Related Occupations</b>	<b>3,930</b>	<b>\$6.90</b>	<b>\$14,350</b>	<b>\$5.91</b>	<b>\$12,290</b>	<b>\$7.39</b>	<b>\$15,380</b>
35-1011	Chefs and Head Cooks	N/A	\$9.70	\$20,170	\$9.47	\$19,690	\$9.81	\$20,410
35-1012	First-Line Supervisors/Managers of Food Preparation and	300	\$9.13	\$18,990	\$7.03	\$14,630	\$10.18	\$21,170
35-2011	Cooks, Fast Food	650	\$6.04	\$12,560	\$5.89	\$12,260	\$6.11	\$12,720
35-2012	Cooks, Institution and Cafeteria	370	\$7.77	\$16,170	\$5.95	\$12,370	\$8.69	\$18,070
35-2014	Cooks, Restaurant	290	\$9.14	\$19,010	\$7.22	\$15,020	\$10.10	\$21,010
35-2015	Cooks, Short Order	N/A	\$6.81	\$14,170	\$5.90	\$12,260	\$7.27	\$15,130
35-2021	Food Preparation Workers	470	\$6.66	\$13,860	\$5.94	\$12,360	\$7.02	\$14,600
35-3011	Bartenders	80	\$6.41	\$13,340	\$5.99	\$12,460	\$6.63	\$13,780
35-3021	Combined Food Preparation and Serving Workers, Including Fast Food	480	\$6.03	\$12,540	\$5.90	\$12,280	\$6.09	\$12,670
35-3022	Counter Attendants, Cafeteria, Food Concession, and Coffee Shop	N/A	\$5.98	\$12,440	\$5.83	\$12,120	\$6.06	\$12,600
35-3031	Waiters and Waitresses	650	\$6.43	\$13,380	\$5.87	\$12,210	\$6.71	\$13,960

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35-3041	Food Servers, Nonrestaurant	N/A	\$7.30	\$15,180	\$5.92	\$12,320	\$7.98	\$16,610
35-9011	Dining Room and Cafeteria Attendants and Bartender Helpers	50	\$5.99	\$12,450	\$5.98	\$12,440	\$5.99	\$12,460
35-9021	Dishwashers	170	\$6.51	\$13,540	\$5.97	\$12,410	\$6.78	\$14,100
35-9031	Hosts and Hostesses, Restaurant, Lounge, and Coffee Shop	N/A	\$6.17	\$12,830	\$6.00	\$12,480	\$6.26	\$13,010
<b>37-0000</b>	<b>Building and Grounds Cleaning and Maintenance Occupations</b>	<b>980</b>	<b>\$8.30</b>	<b>\$17,270</b>	<b>\$5.90</b>	<b>\$12,260</b>	<b>\$9.51</b>	<b>\$19,770</b>
37-1011	First-Line Supervisors/Managers of Housekeeping and Janitorial	60	\$9.11	\$18,950	\$7.63	\$15,870	\$9.85	\$20,500
37-1012	First-Line Supervisors/Managers of Landscaping, Lawn Service, Janitors and Cleaners, Except Maids and Housekeeping Cleaners	40	\$14.02	\$29,150	\$12.18	\$25,340	\$14.93	\$31,060
37-2011	Housekeeping Cleaners	350	\$7.81	\$16,240	\$5.95	\$12,370	\$8.74	\$18,180
37-2012	Maids and Housekeeping Cleaners	250	\$6.76	\$14,060	\$5.83	\$12,130	\$7.22	\$15,020
37-2021	Pest Control Workers	N/A	\$11.81	\$24,560	\$6.61	\$13,740	\$14.41	\$29,960
37-3011	Landscaping and Groundskeeping Workers	170	\$8.31	\$17,280	\$6.32	\$13,140	\$9.30	\$19,350
<b>39-0000</b>	<b>Personal Care and Service Occupations</b>	<b>700</b>	<b>\$8.84</b>	<b>\$18,390</b>	<b>\$5.90</b>	<b>\$12,260</b>	<b>\$10.31</b>	<b>\$21,450</b>
39-2021	Nonfarm Animal Caretakers	N/A	\$8.75	\$18,210	\$6.03	\$12,530	\$10.12	\$21,050
39-5012	Hairdressers, Hairstylists, and Cosmetologists	N/A	\$12.38	\$25,750	\$7.57	\$15,740	\$14.78	\$30,750
39-9011	Child Care Workers	N/A	\$7.44	\$15,480	\$5.81	\$12,090	\$8.26	\$17,180
39-9031	Fitness Trainers and Aerobics Instructors	N/A	\$12.00	\$24,960	\$5.86	\$12,190	\$15.07	\$31,340
39-9032	Recreation Workers	90	\$9.50	\$19,750	\$7.29	\$15,150	\$10.60	\$22,050
<b>41-0000</b>	<b>Sales and Related Occupations</b>	<b>4,600</b>	<b>\$10.69</b>	<b>\$22,240</b>	<b>\$6.56</b>	<b>\$13,640</b>	<b>\$12.76</b>	<b>\$26,540</b>
41-1011	First-Line Supervisors/Managers of Retail Sales Workers	600	\$15.00	\$31,190	\$10.04	\$20,870	\$17.47	\$36,350
41-1012	First-Line Supervisors/Managers of Non-Retail Sales Workers	30	\$25.18	\$52,370	\$21.01	\$43,700	\$27.26	\$56,700
41-2011	Cashiers	1,820	\$7.51	\$15,610	\$6.14	\$12,770	\$8.19	\$17,030

**MDES**  
**Increasing Employment in Mississippi**

**Occupational Employment and Wages**  
**Pascagoula MSA**  
**May 2005 Panel**

SOC Code	SOC Title	Employment (1)	Average Hourly	Average Annual	Entry Hourly	Entry Annual	Experienced Hourly	Experienced Annual
41-2021	Counter and Rental Clerks	N/A	\$9.50	\$19,760	\$7.56	\$15,720	\$10.47	\$21,780
41-2022	Parts Salespersons	N/A	\$11.63	\$24,200	\$7.64	\$15,890	\$13.63	\$28,360
41-2031	Retail Salespersons	1,640	\$10.45	\$21,740	\$6.34	\$13,180	\$12.51	\$26,030
41-3021	Insurance Sales Agents	110	\$17.30	\$35,970	\$10.71	\$22,290	\$20.59	\$42,820
41-4012	Sales Representatives, Wholesale and Manufacturing, Except	250	\$20.26	\$42,140	\$14.16	\$29,460	\$23.31	\$48,480
<b>43-0000</b>	<b>Office and Administrative Support Occupations</b>	<b>7,870</b>	<b>\$12.65</b>	<b>\$26,320</b>	<b>\$7.98</b>	<b>\$16,590</b>	<b>\$14.99</b>	<b>\$31,180</b>
43-1011	First-Line Supervisors/Managers of Office and Administrative	710	\$19.34	\$40,230	\$12.15	\$25,280	\$22.93	\$47,700
43-2011	Switchboard Operators, Including Answering Service	80	\$8.24	\$17,140	\$7.00	\$14,560	\$8.86	\$18,430
43-3011	Bill and Account Collectors	90	\$10.88	\$22,620	\$7.86	\$16,350	\$12.38	\$25,750
43-3021	Billing and Posting Clerks and Machine Operators	320	\$11.94	\$24,840	\$9.29	\$19,330	\$13.26	\$27,590
43-3031	Bookkeeping, Accounting, and Auditing Clerks	530	\$13.05	\$27,150	\$9.41	\$19,570	\$14.87	\$30,930
43-3051	Payroll and Timekeeping Clerks	80	\$12.42	\$25,830	\$8.33	\$17,330	\$14.46	\$30,080
43-3061	Procurement Clerks	20	\$15.05	\$31,290	\$11.45	\$23,820	\$16.84	\$35,030
43-3071	Tellers	N/A	\$8.92	\$18,560	\$6.77	\$14,080	\$10.00	\$20,790
43-4031	Court, Municipal, and License Clerks	40	\$11.71	\$24,360	\$9.02	\$18,760	\$13.06	\$27,150
43-4051	Customer Service Representatives	N/A	\$12.06	\$25,090	\$8.66	\$18,010	\$13.77	\$28,630
43-4071	File Clerks	130	\$9.28	\$19,290	\$6.18	\$12,860	\$10.82	\$22,510
43-4111	Interviewers, Except Eligibility and Loan	70	\$10.61	\$22,060	\$8.70	\$18,090	\$11.56	\$24,050
43-4131	Loan Interviewers and Clerks	N/A	\$12.64	\$26,290	\$11.34	\$23,580	\$13.29	\$27,640
43-4161	Human Resources Assistants, Except Payroll and Timekeeping	40	\$11.54	\$24,000	\$8.49	\$17,660	\$13.06	\$27,170
43-4171	Receptionists and Information Clerks	470	\$9.27	\$19,280	\$7.27	\$15,110	\$10.27	\$21,360

**MDES**  
**Increasing Employment in Mississippi**

**Occupational Employment and Wages**  
**Pascagoula MSA**  
**May 2005 Panel**

SOC Code	SOC Title	Employment (1)	Average Hourly	Average Annual	Entry Hourly	Entry Annual	Experienced Hourly	Experienced Annual
43-4199	Information and Record Clerks, All Other	90	\$17.37	\$36,130	\$12.00	\$24,950	\$20.06	\$41,720
43-5021	Couriers and Messengers	20	\$9.92	\$20,630	\$6.68	\$13,890	\$11.54	\$24,000
43-5031	Police, Fire, and Ambulance Dispatchers	40	\$8.80	\$18,310	\$6.91	\$14,370	\$9.75	\$20,270
43-5032	Dispatchers, Except Police, Fire, and Ambulance	50	\$15.94	\$33,160	\$10.71	\$22,270	\$18.56	\$38,610
43-5041	Meter Readers, Utilities	40	\$11.53	\$23,980	\$7.33	\$15,250	\$13.63	\$28,350
43-5051	Postal Service Clerks	30	\$23.07	\$47,980	\$20.66	\$42,980	\$24.27	\$50,490
43-5052	Postal Service Mail Carriers	140	\$20.74	\$43,130	\$15.18	\$31,580	\$23.51	\$48,910
43-5071	Shipping, Receiving, and Traffic Clerks	250	\$10.33	\$21,490	\$6.14	\$12,770	\$12.43	\$25,850
43-5081	Stock Clerks and Order Fillers	490	\$10.78	\$22,430	\$7.03	\$14,620	\$12.66	\$26,340
43-5111	Weighers, Measurers, Checkers, and Samplers, Recordkeeping	N/A	\$9.32	\$19,390	\$7.82	\$16,260	\$10.07	\$20,950
43-6011	Executive Secretaries and Administrative Assistants	310	\$14.58	\$30,330	\$11.21	\$23,310	\$16.27	\$33,830
43-6014	Secretaries, Except Legal, Medical, and Executive	830	\$11.92	\$24,780	\$8.96	\$18,640	\$13.39	\$27,860
43-9011	Computer Operators	40	\$11.64	\$24,220	\$7.87	\$16,360	\$13.53	\$28,150
43-9021	Data Entry Keyers	100	\$9.61	\$20,000	\$7.88	\$16,400	\$10.48	\$21,800
43-9022	Word Processors and Typists	30	\$11.34	\$23,590	\$8.04	\$16,730	\$12.99	\$27,020
43-9041	Insurance Claims and Policy Processing Clerks	50	\$11.96	\$24,870	\$10.02	\$20,830	\$12.93	\$26,890
43-9051	Mail Clerks and Mail Machine Operators, Except Postal Service	30	\$7.22	\$15,010	\$6.23	\$12,950	\$7.71	\$16,040
43-9061	Office Clerks, General	490	\$10.37	\$21,570	\$6.88	\$14,300	\$12.12	\$25,210
43-9111	Statistical Assistants	50	\$12.65	\$26,310	\$10.10	\$21,000	\$13.92	\$28,960
45-0000	<b>Farming, Fishing, and Forestry Occupations</b>	<b>210</b>	<b>\$9.80</b>	<b>\$20,380</b>	<b>\$5.90</b>	<b>\$12,280</b>	<b>\$11.74</b>	<b>\$24,430</b>
47-0000	<b>Construction and Extraction Occupations</b>	<b>5,170</b>	<b>\$16.50</b>	<b>\$34,320</b>	<b>\$11.20</b>	<b>\$23,300</b>	<b>\$19.15</b>	<b>\$39,830</b>

**MDES**  
**Increasing Employment in Mississippi**

**Occupational Employment and Wages**  
**Pascagoula MSA**  
**May 2005 Panel**

SOC Code	SOC Title	Employment (1)	Average Hourly	Average Annual	Entry Hourly	Entry Annual	Experienced Hourly	Experienced Annual
47-1011	First-Line Supervisors/Managers of Construction Trades and	380	\$22.08	\$45,930	\$15.68	\$32,620	\$25.28	\$52,580
47-2031	Carpenters	510	\$16.50	\$34,320	\$12.98	\$27,000	\$18.26	\$37,970
47-2051	Cement Masons and Concrete Finishers	30	\$11.38	\$23,680	\$9.25	\$19,250	\$12.45	\$25,890
47-2061	Construction Laborers	450	\$9.67	\$20,120	\$7.49	\$15,590	\$10.76	\$22,380
47-2071	Paving, Surfacing, and Tamping Equipment Operators	20	\$11.89	\$24,720	\$10.40	\$21,630	\$12.63	\$26,270
47-2073	Operating Engineers and Other Construction Equipment Operators	N/A	\$13.48	\$28,050	\$10.43	\$21,690	\$15.01	\$31,230
47-2141	Painters, Construction and Maintenance	160	\$16.61	\$34,550	\$13.27	\$27,610	\$18.28	\$38,030
47-3013	Helpers--Electricians	30	\$11.79	\$24,520	\$10.37	\$21,580	\$12.49	\$25,980
47-3015	Helpers--Pipefitters, Plumbers, Pipefitters, and Steamfitters	N/A	\$8.77	\$18,240	\$7.57	\$15,750	\$9.37	\$19,490
47-4051	Highway Maintenance Workers	100	\$9.99	\$20,770	\$9.01	\$18,750	\$10.47	\$21,780
<b>49-0000</b>	<b>Installation, Maintenance, and Repair Occupations</b>	<b>2,480</b>	<b>\$18.25</b>	<b>\$37,960</b>	<b>\$11.42</b>	<b>\$23,750</b>	<b>\$21.66</b>	<b>\$45,060</b>
49-1011	First-Line Supervisors/Managers of Mechanics, Installers, and	160	\$21.73	\$45,190	\$15.71	\$32,680	\$24.73	\$51,450
49-2022	Telecommunications Equipment Installers and Repairers, Except Line	N/A	\$21.30	\$44,310	\$12.86	\$26,740	\$25.53	\$53,090
49-3021	Automotive Body and Related Repairers	80	\$13.07	\$27,190	\$9.55	\$19,870	\$14.83	\$30,850
49-3023	Automotive Service Technicians and Mechanics	190	\$13.98	\$29,080	\$8.01	\$16,650	\$16.97	\$35,290
49-3031	Bus and Truck Mechanics and Diesel Engine Specialists	80	\$16.10	\$33,490	\$12.77	\$26,570	\$17.76	\$36,950
49-3042	Mobile Heavy Equipment Mechanics, Except Engines	80	\$15.26	\$31,730	\$12.02	\$25,010	\$16.87	\$35,090
49-3051	Motorboat Mechanics	N/A	\$10.60	\$22,050	\$9.69	\$20,160	\$11.06	\$23,000
49-9021	Heating, Air Conditioning, and Refrigeration Mechanics and Installers	N/A	\$16.08	\$33,440	\$14.91	\$31,020	\$16.66	\$34,650
49-9042	Maintenance and Repair Workers, General	470	\$13.86	\$28,830	\$9.92	\$20,630	\$15.83	\$32,940
49-9043	Maintenance Workers, Machinery	60	\$21.95	\$45,650	\$14.56	\$30,290	\$25.64	\$53,330

**MDES**  
**Increasing Employment in Mississippi**

**Occupational Employment and Wages**  
**Pascagoula MSA**  
**May 2005 Panel**

SOC Code	SOC Title	Employment (1)	Average Hourly	Average Annual	Entry Hourly	Entry Annual	Experienced Hourly	Experienced Annual
49-9051	Electrical Power-Line Installers and Repairers	80	\$20.46	\$42,560	\$16.40	\$34,120	\$22.49	\$46,780
49-9099	Installation, Maintenance, and Repair Workers, All Other	N/A	\$21.28	\$44,250	\$12.63	\$26,270	\$25.60	\$53,250
<b>51-0000</b>	<b>Production Occupations</b>	<b>7,460</b>	<b>\$18.59</b>	<b>\$38,660</b>	<b>\$12.98</b>	<b>\$27,000</b>	<b>\$21.39</b>	<b>\$44,490</b>
51-1011	First-Line Supervisors/Managers of Production and Operating	430	\$27.34	\$56,860	\$19.09	\$39,710	\$31.46	\$65,430
51-2041	Structural Metal Fabricators and Fitters	140	\$14.74	\$30,660	\$13.24	\$27,530	\$15.49	\$32,220
51-2092	Team Assemblers	100	\$12.42	\$25,820	\$8.07	\$16,790	\$14.59	\$30,340
51-3021	Butchers and Meat Cutters	50	\$9.99	\$20,790	\$6.83	\$14,200	\$11.58	\$24,080
51-4034	Lathe and Turning Machine Tool Setters, Operators, and Tenders, Metal and Plastic	40	\$14.15	\$29,420	\$10.31	\$21,450	\$16.06	\$33,410
51-4122	Welding, Soldering, and Brazing Machine Setters, Operators, and Tenders	N/A	\$14.96	\$31,120	\$14.23	\$29,600	\$15.32	\$31,870
51-6011	Laundry and Dry-Cleaning Workers	50	\$7.19	\$14,950	\$5.98	\$12,430	\$7.80	\$16,220
51-6021	Pressers, Textile, Garment, and Related Materials	40	\$6.24	\$12,980	\$5.93	\$12,330	\$6.40	\$13,310
51-7011	Cabinetmakers and Bench Carpenters	60	\$12.67	\$26,360	\$9.77	\$20,320	\$14.13	\$29,380
51-8031	Water and Liquid Waste Treatment Plant and System Operators	N/A	\$13.61	\$28,310	\$10.93	\$22,740	\$14.95	\$31,090
51-9023	Mixing and Blending Machine Setters, Operators, and Tenders	20	\$10.90	\$22,670	\$8.79	\$18,290	\$11.95	\$24,860
51-9061	Inspectors, Testers, Sorters, Samplers, and Weighers	290	\$20.76	\$43,190	\$14.18	\$29,490	\$24.05	\$50,030
51-9083	Ophthalmic Laboratory Technicians	60	\$10.34	\$21,500	\$9.21	\$19,150	\$10.91	\$22,680
51-9121	Coating, Painting, and Spraying Machine Setters, Operators, and Tenders	100	\$15.57	\$32,380	\$13.04	\$27,130	\$16.83	\$35,010
51-9198	Helpers--Production Workers	170	\$11.37	\$23,650	\$8.56	\$17,810	\$12.77	\$26,570
<b>53-0000</b>	<b>Transportation and Material Moving Occupations</b>	<b>3,120</b>	<b>\$11.53</b>	<b>\$23,990</b>	<b>\$6.86</b>	<b>\$14,270</b>	<b>\$13.87</b>	<b>\$28,850</b>
53-1021	First-Line Supervisors/Managers of Helpers, Laborers, and	80	\$20.40	\$42,430	\$13.94	\$29,000	\$23.62	\$49,140
53-1031	First-Line Supervisors/Managers of Transportation and Material-	40	\$18.31	\$38,080	\$10.99	\$22,850	\$21.97	\$45,690

**MDES**  
**Increasing Employment in Mississippi**

**Occupational Employment and Wages**  
**Pascagoula MSA**  
**May 2005 Panel**

SOC Code	SOC Title	Employment (1)	Average Hourly	Average Annual	Entry Hourly	Entry Annual	Experienced Hourly	Experienced Annual
53-3022	Bus Drivers, School	380	\$7.61	\$15,830	\$6.05	\$12,570	\$8.39	\$17,460
53-3031	Driver/Sales Workers	N/A	\$6.40	\$13,310	\$5.90	\$12,270	\$6.65	\$13,830
53-3032	Truck Drivers, Heavy and Tractor-Trailer	400	\$14.30	\$29,750	\$9.40	\$19,560	\$16.75	\$34,850
53-3033	Truck Drivers, Light or Delivery Services	310	\$11.45	\$23,820	\$8.36	\$17,390	\$13.00	\$27,030
53-5021	Captains, Mates, and Pilots of Water Vessels	N/A	\$18.31	\$38,080	\$15.41	\$32,060	\$19.76	\$41,090
53-5031	Ship Engineers	30	\$21.92	\$45,590	\$13.91	\$28,930	\$25.92	\$53,920
53-7021	Crane and Tower Operators	200	\$15.94	\$33,160	\$13.73	\$28,560	\$17.05	\$35,460
53-7032	Excavating and Loading Machine and Dragline Operators	N/A	\$11.98	\$24,920	\$9.92	\$20,640	\$13.01	\$27,050
53-7051	Industrial Truck and Tractor Operators	150	\$13.42	\$27,920	\$10.99	\$22,850	\$14.64	\$30,460
53-7061	Cleaners of Vehicles and Equipment	N/A	\$7.72	\$16,060	\$5.93	\$12,340	\$8.61	\$17,920
53-7062	Laborers and Freight, Stock, and Material Movers, Hand	700	\$10.31	\$21,440	\$6.93	\$14,410	\$11.99	\$24,950
53-7064	Packers and Packagers, Hand	140	\$6.39	\$13,280	\$5.89	\$12,260	\$6.63	\$13,800

Footnotes for May 2005 Occupational Employment and Wage estimates

**(1) =** Estimates for detailed occupations do not sum to the totals because the totals include occupations not shown separately. Estimates do not include self-employed workers.

**(N/A) =** Estimates not available.

**SOC =** Standard Occupational Classification

# Technical Notes for May 2005 OES Estimates

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The Occupational Employment Statistics (OES) survey is a semiannual mail survey measuring occupational employment and wage rates for wage and salary workers in nonfarm establishments in the United States. Guam, Puerto Rico, and the Virgin Islands also are surveyed, but their data are not included in this release. OES estimates are constructed from a sample of about 1.2 million establishments. Forms are mailed to approximately 200,000 establishments in May and November of each year for a 3-year period. The nationwide response rate for the May 2005 survey was 78.4 percent based on establishments and 73.2 percent based on employment. The survey included establishments sampled in the May 2005, November 2004, May 2004, November 2003, May 2003, and November 2002 semiannual panels.

## The Occupational Coding System

The OES survey uses the Office of Management and Budget's (OMB) occupational classification system, the Standard Occupational Classification (SOC) system. The SOC system is the first OMB-required occupational classification system for federal agencies. The OES survey categorizes workers in 1 of 801 detailed occupations. Together, these detailed occupations comprise 23 major occupational groups, one of which-military specific occupations-is not included in the OES survey. The major groups are as follows:

- Management occupations
- Business and financial operations occupations
- Computer and mathematical occupations
- Architecture and engineering occupations
- Life, physical, and social science occupations
- Community and social services occupations
- Legal occupations
- Education, training and library occupations
- Arts, design, entertainment, sports, and media occupations
- Healthcare practitioners and technical occupations
- Healthcare support occupations
- Protective service occupations
- Food preparation and serving related occupations
- Building and grounds cleaning and maintenance occupations
- Personal care and service occupations
- Sales and related occupations
- Office and administrative support occupations
- Farming, fishing, and forestry, occupations
- Construction, and extraction occupations
- Installation, maintenance, and repair occupations
- Production occupations
- Transportation and material moving occupations
- Military specific occupations (not surveyed in OES).



For more information about the SOC, please see the BLS Web site at <http://www.bls.gov/soc/home.htm>.

## **The Industry Coding System**

The OES survey uses the North American Industry Classification System (NAICS). For more information about NAICS, see the BLS Web site at <http://www.bls.gov/bls/naics.htm>.

The OES survey includes establishments in NAICS sectors 11 (logging and agricultural support activities only), 21, 22, 23, 31-33, 42, 44-45, 48-49, 51, 52, 53, 54, 55, 56, 61, 62, 71, 72, 81 (except private households), state government, and local government. The executive branch of the federal government and the U.S. Postal Service also are included. An establishment is defined as an economic unit that processes goods or provides services, such as a factory, store, or mine. The establishment is generally at a single physical location and is engaged primarily in one type of economic activity.

The OES survey covers all full-and part-time wage and salary workers in nonfarm industries. The survey does not include the self-employed owners and partners in unincorporated firms, household workers, or unpaid family workers.

## **Survey Sample**

BLS funds the survey and provides the procedures and technical support, while the State Workforce Agencies (SWAs) collect most of the data. BLS produces cross-industry and industry-specific estimates for the nation, states, and metropolitan statistical areas (MSAs). Industry-specific estimates are produced at the NAICS sector, 3-digit, 4-digit, and selected 5-digit industry levels. BLS releases all cross-industry and national estimates; the SWAs release industry-specific estimates at the state and MSA levels.

State Unemployment Insurance (UI) files provide the universe from which the OES survey draws its sample. Employment benchmarks are obtained from reports submitted by employers to the UI program. Supplemental sources are used for rail transportation (NAICS 4821) and Guam because they do not report to the UI program. The OES survey sample is stratified by metropolitan and nonmetropolitan areas and industry. Samples selected in panels prior to May 2005 were stratified using MSA definitions based on the 1990 Metropolitan Statistical Area Standards. Beginning with the May 2005 panel, the sample was stratified using new MSA definitions based on the 2000 Metropolitan Statistical Area Standards.

A census of federal government and the U.S. Postal Service is taken every panel. A census of state government and Hawaii's local government is taken every November panel. In order to provide the most occupational coverage, larger employers are more likely to be selected than smaller employers. The unweighted employment of sampled establishments make up approximately 65 percent of total national employment.

## Concepts

*Occupational employment* is the estimate of total wage and salary employment in an occupation across the industries surveyed. The OES survey defines employment as the number of workers who can be classified as full- or part-time employees, including workers on paid vacations or other types of paid leave; workers on unpaid short-term absences; salaried officers, executives, and staff members of incorporated firms; employees temporarily assigned to other units; and employees for whom the reporting unit is their permanent duty station regardless of whether that unit prepares their paycheck.

The OES survey form sent to establishments with more than 10 workers contains between 50 and 225 SOC occupations selected on the basis of the sampled establishment's industry classification. To reduce paperwork and respondent burden, no survey form contains every SOC occupation. Thus, data for specific occupations are collected primarily from establishments in industries that are the predominant employers of workers in those occupations. Each survey form is structured, however, to allow a respondent to provide detailed occupational information for each worker at the establishment; that is, unlisted occupations can be added to the survey form. Employers with 10 or fewer workers are sent a form with no occupations listed, and are instructed to fill in the occupations for their workers.

*Wages* for the OES survey are straight-time, gross pay, exclusive of premium pay. Base rate, cost-of-living allowances, guaranteed pay, hazardous-duty pay, incentive pay including commissions and production bonuses, tips, and on-call pay are included. Excluded are back pay, jury duty pay, overtime pay, severance pay, shift differentials, non-production bonuses, employer cost for supplementary benefits, and tuition reimbursements.

The OES survey collects wage data in 12 intervals. Employers report the number of employees in an occupation per each wage range. The wage intervals used for the November 2004 survey are as follows:

Interval	Hourly Wages	Annual Wages
Range A	Under \$6.75	Under \$14,040
Range B	\$6.75 to \$8.49	\$14,040 to \$17,679
Range C	\$8.50 to \$10.74	\$17,680 to \$22,359
Range D	\$10.75 to \$13.49	\$22,360 to \$28,079
Range E	\$13.50 to \$16.99	\$28,080 to \$35,359
Range F	\$17.00 to \$21.49	\$35,360 to \$44,719
Range G	\$21.50 to \$27.24	\$44,720 to \$56,679

Range H	\$27.25 to \$34.49	\$56,680 to \$71,759
Range I	\$34.50 to \$43.74	\$71,760 to \$90,999
Range J	\$43.75 to \$55.49	\$91,000 to \$115,439
Range K	\$55.50 to \$69.99	\$115,440 to \$145,599
Range L	\$70.00 and over	\$145,600 and over

*Mean hourly wage.* The mean hourly wage rate for an occupation is the total wages that all workers in the occupation earn in an hour divided by the total employment of the occupation. To calculate the mean hourly wage of each occupation, total weighted hourly wages are summed across all intervals and divided by the occupation's weighted survey employment. The mean wage for each interval is based on occupational wage data collected by the BLS Office of Compensation and Working Conditions for the National Compensation Survey (NCS).

The mean hourly wage value for the highest wage interval, \$70.00 and over, was computed separately for NCS data from 2004, 2003, 2002, and 2001. The average of these mean wage rates was used for all of the \$70.00 and over data in the November 2004 survey. The wage rates for this interval do not go through any wage updating procedures.

Because there is wide variation in the number of hours worked by those employed as actors, dancers, musicians, and singers, only hourly wages are available for those occupations. Many jobs are for a duration of 1 day or 1 week and it is extremely rare for a performer to have guaranteed employment for a period that exceeds 3 to 6 months.

*Percentile wage.* The p-th percentile wage rate for an occupation is the wage where p percent of all workers earn that amount or less and where (100-p) percent of all workers earn that amount or more. This statistic is calculated by uniformly distributing the workers inside each wage interval, ranking the workers from lowest paid to highest paid, and calculating the product of the total employment for the occupation and the desired percentile to determine the worker that earns the p-th percentile wage rate.

*Annual wage.* Many employees are paid at an hourly rate by their employers and may work more than or less than 40 hours per week. Annual wage estimates for most occupations in this release are calculated by multiplying the mean hourly wage by a "year-round, full-time" figure of 2,080 hours (52 weeks by 40 hours). Thus, annual wage estimates may not represent the actual annual pay received by the employee if they work more or less than 2,080 hours per year. Some workers typically work less than full time, year round. For these occupations, the OES survey collects and reports either the annual salary or the hourly wage rate, depending on how the occupation is typically paid, but not both. For example, teachers, flight attendants, and pilots may be paid an annual salary, but do not work the usual 2,080 hours per year. In this case, an annual salary is reported.

Other workers, such as entertainment workers, are paid hourly rates, but generally do not work full time, year round. For these workers, only an hourly wage is reported.

*Hourly versus annual wage reporting.* For each occupation, respondents are asked to report the number of employees paid within specific wage intervals. The intervals are defined both as hourly rates and the corresponding annual rates, where the annual rate for an occupation is calculated by multiplying the hourly wage rate by a typical work year of 2,080 hours. The responding establishment can reference either the hourly or the annual rate for full-time workers, but they are instructed to report the hourly rate for part-time workers.

## **Estimation methodology**

Each OES panel includes approximately 200,000 establishments. The OES survey is designed to produce estimates using six panels (3 years) of data. The full six-panel sample of 1.2 million establishments allows the production of estimates at detailed levels of geography, industry, and occupation.

*Wage Updating.* Significant reductions in sampling errors are obtained by combining six panels of data, particularly for small geographic areas and occupations. Wages for the current panel need no adjustment. However, wages in the five previous panels need to be updated to the current panel's reference period.

The OES program uses the BLS Employment Cost Index (ECI) to adjust survey data from prior panels before combining them with the current panel's data. The wage updating procedure adjusts each detailed occupation's wage rate, as measured in the earlier panel, according to the average movement of its broader occupational division. The procedure assumes that there are no major differences by geography, industry, or detailed occupation within the occupational division.

*Imputation.* About 20 percent of establishments do not respond for a given panel. A "nearest neighbor" hot deck imputation procedure is used to impute missing occupational employment totals. A variant of mean imputation is used to impute missing wage distributions. The variant of mean imputation for wage distributions also is applied to establishments that provide reports with occupational totals but partial or missing wage data.

*Weighting and benchmarking.* The sample establishments in each panel are weighted to represent all establishments that were part of the in-scope frame from which the panel was selected. Based on the sampled establishments, sampling weights are adjusted when six panels are combined. Sampling weights are further adjusted by the ratio of employment totals (the average of November 2004 and May 2005 employment) from the BLS Quarterly Census of Employment and Wages to employment totals from the OES survey.

*May 2005 OES survey estimates.* The May 2005 OES survey estimates are based on all data collected from establishments in the May 2005, November 2004, May 2004, November 2003, May 2003, and November 2002 semiannual samples.

*Reliability of the estimates.* Estimates calculated from a sample survey are subject to two types of error: sampling and nonsampling. Sampling error occurs when estimates are calculated from a subset (i.e., sample) of the population instead of the full population. When a sample of the population is surveyed, there is a chance that the sample estimate of the characteristic of interest may differ from the population value of that characteristic. Differences between the sample estimate and the population value will vary depending on the sample selected. This variability can be estimated by calculating the standard error (SE) of the sample estimate. If we were to repeat the sampling and estimation process countless times using the same survey design, approximately 90 percent of the intervals created by adding and subtracting 1.645 SEs from the sample estimate would include the population value. These intervals are called 90-percent confidence intervals. The OES survey, however, usually uses the relative standard error (RSE) of a sample estimate instead of its SE to measure sampling error. RSE is defined as the SE of a sample estimate divided by the sample estimate itself. This statistic provides the user with a measure of the relative precision of the sample estimate. RSEs are calculated for both occupational employment and mean wage rate estimates. Occupational employment RSEs are calculated using a subsample, random group replication technique called the jackknife. Mean wage rate RSEs are calculated using a variance components model that accounts for both the observed and unobserved components of the wage data. The variances of the unobserved components are estimated using wage data from the BLS National Compensation Survey. In general, estimates based on many establishments have lower RSEs than estimates based on few establishments. If the distributional assumptions of the models are violated, the resulting confidence intervals may not reflect the prescribed level of confidence.

Nonsampling error occurs for a variety of reasons, none of which are directly connected to sampling. Examples of nonsampling error include: nonresponse, data incorrectly reported by the respondent, mistakes made in entering collected data into the database, and mistakes made in editing and processing the collected data.